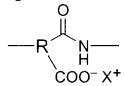
protonated tri- protonated n-propylamine, protonated tri-n-butylamine, protonated tri-n-hexylamine or, protonated dimethylalkylamine.

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8. (Once amended) A polyamide fluid separation membrane wherein the polyimide membrane is a composite membrane formed by the following process: a) forming a coating solution of a polyamic acid salt polymer in a solvent system that contains from 0.01% to 20 % by volume of tertiary amine or water; b) applying said coating solution to a porous substrate to form a coated substrate; c) solidifying said coating solution by drying or by immersing said coated substrate into a non solvent; d) converting said coated substrate having the solidified coating into a final polyimide composite membrane by thermal or chemical treatment.

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- 11. (Once amended) The process of claim 8 wherein said porous substrate is formed from polysulfone, polyimide, polyamide, polyolefin, or polyether imide.
- 15. (Once amended) A polyimide article formed from a polyamic acid salt precursor article by thermal imidization, wherein said polyamic acid salt precursor article is formed from a casting solution containing a catalyst, and said polyamic acid salt precursor contains the following radicals:



wherein R is a substituted or unsubstituted aromatic, alicyclic, heterocyclic, or aliphatic radical; and

X is an ammonium ion, a phosphonium ion, a sulfonium ion, a protonated tertiary amine or a quaternary amine or a mixture thereof.

18. (Once amended) The polyimide fluid separation membrane of claim 16 wherein the temperature of said thermal imidization is between 100 to 200 degrees Centigrade.

- 24. (Once amended) The polyimide membrane of claim 23 wherein said inert solvent is hexane, cyclohexane, octane, pentane, ethyl ether, propyl ether, butyl ether, methyl t-butyl ether, petroleum ether, perfluorinated alkanes, perfluorinated alkyl ether, acetone or methyl ethyl ketone.
- 25. (Once amended) The polyimide membrane of claim 23 wherein said diluted dehydration agent is an acid anhydride, acid chloride or an acetal.

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28. (Once amended) The fluid separation membrane of claim 23 wherein X is a protonated tertiary amine, tetraalkylammonium or ammonia.